



## Chevron Resources Company

A division of Chevron Industries, Inc.

Manila Star Route, Vernal, UT 84078 • Phone (801) 789-2233

October 3, 1983

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DIVISION OF  
OIL, GAS & MINING

Mr. Tom Portal  
Utah Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, Utah 84078

Dear Mr. Portal:

Pursuant of our phone conversation of September 21, 1983, I have prepared an index that should allow the Division staff to locate information in the Mine and Reclamation Plan (Amended 1983) that pertains to questions posed by the Division in correspondence dated, April 1, 1983. This correspondence was in response to a draft MRP submitted on January 19, 1983. It should be noted that the final MRP differs from the original in numerous ways. This difference was the result of Division staff discussions with me, both at the facility and over the phone. It should be apparent to you and other staff members while examining the document itself.

All references are directed to the Chevron Resources Company, Vernal Phosphate Operations, Mine and Reclamation Plan (Amended 1983) unless otherwise indicated.

### JANUARY 19, 1983, LETTER (RESPONSE TO DOGM LETTER OF DECEMBER 13, 1982)

1. Answered 1/19/83
2. Seed mix: Refer to Appendix I, Page 24  
Mulch rate: Refer to Appendix I, Page 14  
Netting: 1" Mesh Conweb Netting Placed over straw mulch and stapled into place with 6" staples.
3. Map: Refer to Figure 10  
Sampling Procedures: Refer to Section VI, Page 30  
Data: Refer to Appendix VII
4. Bufferzone: Refer to Figure 3  
Note: Current mining is in Panel "C", which is not adjacent to Big Brush Creek except for the outlet of the french drain system.
5. Overburden samples for EP Toxicity tests were obtained from Panel "C". Refer to Section VII, Page 37 & 38 and Appendix VI.
6. McIntyre Tongue: Refer to Appendix V, Sample VCC 4-13" Bed 3 12". It is also labeled "Red Subsoil" (hand written). Also refer to Appendix IV for more detailed soil mapping and analysis for the facility.  
Topsoil Management: Refer to Section III, Pages 14-16.
7. SAG Mill Area: Refer to Figure 7.

### NOVEMBER 23, 1983, LETTER (RESPONSE TO DOGM LETTER OF JULY 13, 1982.)

1. Addressed 1/19/83
2. Addressed 1/19/83
3. Brush Creek Culvert: Refer to Appendix II
4. Addressed 1/19/83

5. Soil Analysis: Refer to Section III, Appendix IV and Appendix V.  
Topsoil Salvage & Storage: Refer to Section III, Pages 16-18.
6. Addressed 1/19/83
7. Bonding: The facility is currently under a "Mined Lands Reclamation Contract" No. ACT/047/007 with the Division. Refer to correspondence of August 31, 1983.
8. Utah Division of Wildlife: Refer to Appendix III.

COMMENTS RECEIVED BY CHEVRON FROM DOGM, APRIL 1, 1983.

Rule M-3(2)e - TLP

Refer to Section IV. 5 and 6, Page 26.

Rule M-10 (14) - TLP

1. Substitute material will not normally be used in Panel "C" since the topsoil will be stripped and replaced immediately upon regraded soils. Refer to Section II.1, Page 3 and Section III.3, Page 16. In areas mined prior to Chevron's purchase of the property where topsoil was not salvaged, substitute soils may be used. Substitute materials are currently being evaluated by Chevron and Native Plants, Inc.. Refer to Appendix I, Page 11.
2. Sampling methods: Refer to Section III.2, Pages 14-16.  
Fertilization: Refer to Section IV.6, Page 26.

Panel "C" is currently being mined. Refer to Section II.1 Pages 3-8 for schedule and location.

Topsoil Inventory: Refer to Section III.3, Page 18

Storage and Protection

Topsoil storage: Refer to Section III.2 page 16. As was stated earlier, future stockpiling of additional topsoil will not be necessary in Panel "C".

Redistribution

Refer to Section III.2, Page 16

Rule M-3(2)(C) - TLP

The negetative cover of the facility is low (Section III.1) resulting in a minimum of slash after stripping. Approximately one half of the slash is mixed with the spoils during dozing operations (Section I), the remainder is piled along the edges of the Panel to provide small game cover. Should the mixing of slash in the spoils cause future slippage the practice will be halted, the Division notified and new procedures initiated.

The operator does not possess a burning permit. A chopper is currently being considered for use on the slash. The chopped slash would be spread over the topsoil after placement, but prior to grading and smoothing. If this is utilized the Division will be consulted.

Rule M-10(6)-TLP

Addressed earlier in this correspondence. Panel "B" is not being considered for mining at this time.

Rule M-3(2)(e) SGL

Seed Mixes: Refer to Section IV.3 & 4, Pages 21-26.

Success standards: Refer to Section III.1, Page 14  
Native Plants, Inc., recently completed a follow-up study of the study plots.  
When received by Chevron a copy will be presented to the Division.

Rule M-3-DWD

(1)(d) Refer to Appendix VIII

(1)(e) Refer to Section V and Figures 7 & 8.

Rule M-3-DWD

Ground water has not been encountered in the overburden and ore layers which rest upon the Weber Sandstone. All drilling stops when the sandstone is encountered. Therefore, there is not data from exploration drilling concerning water.

Refer to Section VI for ground water and well data. Appendix VII consists of water quality analysis from process water, streams and ground water. The water quality analysis indicates there has been no detrimental effect observed from the Vernal Phosphate Operation on the quality of water in Big Brush Creek. Water analysis in Appendix VII labeled "Camp Canyon Ck Abv Brush Ck" and "Hole in the Wall Canyon" is from water that flows through overburden that makes up the "french drain" systems. Camp Canyon french drain was constructed by Stauffer, there is no active mining in the Canyon.

Rule M-3(2)(a)-DWD

Refer to Appendix VIII

Rule M-10(8)DWD

Refer to Figure 7 for French drain location. Water quality: Refer to Section VI and Appendix VII.

M-3(2)(d)-PGL

The Division of Oil, Gas and Mining will be notified immediately in the event of a slope failure.

The original design and current modifications to the tails dam are attached and noted as Addendum I, Mine and Reclamation Plan (Amended 1983)

Should you or othe staff memebbers have questions, please call me at 789-7795, ext. 48. If necessary, I will be glad to meet with you to clarify any questions.

Sincerely,

  
O. L. Fyock

OLF:lm  
Enclosures

cc: R. D. Haddenham - without enclosures  
James Smith, Utah DOGM - without enclosures